

III.—*Descriptions of new species of Melania collected during the Voyage of H.M.S. Sulphur.* By RICHARD BRINSLEY HINDS, Esq.

1. *Melania fumosa.* Testa elongata, crassiuscula, lœvigata, olivaceo-fusca, unicore, vel junioribus infra suturam strigis longitudinalibus rufis ornata; anfractibus paulisper rotundatis, superne late subconcave coarctatis, lineis impressis sparsim et obsolete cinctis; spira erosa apud anfractum quartum; apertura cœrulecente. Axis truncatus 29 lin.

*Hab.* New Ireland; in the streams about Port Carteret.

2. *Melania aspirans.* Testa elongate subulata, lœvigata, fusca, unicore; anfractibus numerosis, subplanulatis, lineis arcuatis incrementi fere minute pliciformibus, ultimo ad basin striato; sutura lineis impressis comitata; apertura cœrulecente; columella albida. Axis 23 lin.

*Hab.* Feejee Islands; in the rivers.

3. *Melania Plutonis.* Testa pyramidato-subulata, subturrata, lœvigata, nitida, aterrima, unicore; anfractibus paulisper rotundatis, ultimo magno, rotundato; apertura cœrulecente. Axis 23 lin.

*Hab.* Feejee Islands; in the rivers.

Very pyramidal in its shape, and the last whorl displays a far greater proportion than is usual; otherwise its characters are perfectly passive. The apex is erose to the fifth or six whorl.

4. *Melania figurata.* Testa elongate subulata, lœvigata, polita, fulva; anfractibus numerosis subrotundatis, superne strigis rufis longitudinalibus, infra lineis interruptis transversis seriatim dispositis ornatis, infra suturam pliciferis, ultimo ad basin striato; apice eroso; apertura cœrulecente. Axis 22 lin.

*Hab.* New Ireland; in the streams.

The ornatation of this species is eminently distinguishing; otherwise it is a smooth, elongated, tawny shell, like many others. The middle and inferior portions of each whorl are adorned with transverse rufous interrupted lines, disposed in regular series round the shell, and present a pretty appearance on its pale yellow semitransparent surface.

5. *Melania picta.* Testa elongate subulata, fusca; anfractibus numerosis, subplanulatis, plicatis, transversim sulcatis, strigis rufis longitudinalibus ornatis, infra suturam uniseriatim tuberculatis; apertura cœrulecente. Axis 19 lin.

*Hab.* New Ireland; in the streams.

This species closely resembles *M. subulata* of Sowerby's 'Genera,' not of Lamarck; the figure there given does not represent some of the characters dwelt on in the above description, and I am not aware that a diagnosis anywhere exists.

6. *Melania luctuosa*. Testa subulata, turrita, fusca ; anfractibus planulatis, fere subconcavis, transversim lineis impressis cinctis, strigis rufis longitudinalibus interruptis ornatis ; spira paulisper erosa ; apertura cærulecente. Axis 13 lin.

*Hab.* Feejee Islands ; in the rivers.

So contracted are the whorls here as in some cases to be not only flattened but even concave, particularly towards the last whorl.

7. *Melania perpinguis*. Testa elongata, fusca, strigis rufis longitudinalibus plerumque ornata ; anfractibus rotundatis, subturratis, lineis transversis impressis exculptis ; spira subplicata, apud extremitatem erosa ; apertura cærulecente, ad peripheriam ustulata. Axis 14 lin.

*Hab.* Feejee Islands ; in the rivers.

8. *Melania occata*. Testa ovata, elongata, lutescente ; anfractibus paucis, rotundatis, exaratis, lyris intermediis angustis acutis ; spira apud anfractum quartum erosa ; apertura cærulecente. Axis 12 lin.

*Hab.* River Sacramento, California.

The rounded whorls are ploughed into numerous furrows, and the intervening ridges are comparatively narrow and keel-shaped ; the lower part of the aperture is somewhat dilated, and slightly disposed to elongate in the manner of *Io*.

9. *Melania mæsta*. Testa ovata, elongata, fuliginea, infra epidermidem albida ; anfractibus rotundatis, superne angulatis et excavatis, transversim lineis impressis striatis ; spira apud extremitatem erosa ; apertura ustulata, ad basin subtruncata. Axis 15 lin.

*Hab.* Feejee Islands ; in the rivers.

The slightly concave area of the whorl beneath the suture, which occurs in this species, is shared with a few others. In the present, it influences the shape of the aperture, straightens the outer lip, provides it with an angle above, and truncates it below. The margins of the aperture have the colour of burnt umber.

10. *Melania verrucosa*. Testa subulata, subturrita, lutea ; anfractibus octonis planulatis, longitrorsum obtuse plicatis, lineis tribus transversis intersectis, harum intervallis obtusis, quadratis, tuberculosis ; apice vix eroso ; apertura elongata, lutescente. Axis 10 lin.

*Hab.* New Ireland ; in the streams.

11. *Melania fulgurans*. Testa obeso-subulata, laevigata, polita, lutescente, strigis rufis angulatis fulmen simulantibus conferta ; anfractibus decenis subrotundatis ; spira laeviter plicata, exserta, vix erosa ; apertura ovali, cærulecente. Axis 13 lin.

*Hab.* New Ireland ; in the streams.

Few species of *Melania* have the pretensions to beauty of this.

The shell is subulate, with the inferior whorls obese, smooth and polished; the whorls about ten in number and slightly rounded; those towards the apex indistinctly plicated; spire exserted and scarcely eroded. The base colour is a pale yellow, densely crowded with transverse angular dark red markings.

12. *Melania florata*. Testa ovato-elongata, polita, cornea, tessellata; anfractibus paucis, subrotundatis, seriebus tribus macularum rufarum quadratarum eleganter ornatis; serie supra maxima, intermedia minima; anfractu ultimo ad basin punctato; spira erosa; apertura cornea. Axis 6½ lin.

*Hab.* New Ireland; in the streams.

This also is a pretty species with a pale surface, each whorl being ornamented by three series of transverse reddish spots, of which the superior is the largest and most deeply coloured; the two others are punctations of reddish spots, the inferior being intermediate in size. Very delicate striæ, not easily recognizable, traverse the shell transversely.

13. *Melania gaudiosa*. Testa ovato-elongata, lœvigata, polita, cornea; anfractibus octonis subplanulatis, unicoloribus; spira oblique pliata, ad extremitatem erosa; apertura ovali, cornea. Axis 9 lin.

*Hab.* New Ireland; in the streams.

Approaches somewhat closely, in general character, the American shell, *M. plicifera*.

14. *Melania pyramidata*. Testa elongate subulata, gracili, nitida, cornea; anfractibus decem subplanulatis, transversim distanter striatis, superne intra suturam fusco anguste fasciato, ultimo ad basin puncticulato; spira versus extremitatem plicata, erosa; apertura ovali. Axis 9 lin.

*Hab.* New Ireland; in the streams.

15. *Melania latebrosa*. Testa ovata, elongata, sordide fusca; anfractibus perpaucis, rotundatis, lineis impressis transversis instructis, erosionis usque ad penultimum; apertura parva, ovali, cærulescente. Axis 8 lin.

*Hab.* New Ireland; in the streams.

A small obese shell, with little to distinguish it beyond its few rounded whorls furrowed transversely with parallel impressed lines, and its comparatively small, neat, oval aperture.

16. *Melania pugilis*. Testa spinosa, elongate ovata, fulva; anfractibus circa novem, rotundatis, superne spiniferis, infra suturam serie unica macularum rufarum, inferne seriebus duabus minoribus cinctis, ultimo ad basin multiserrato, spinis distantibus, ad peripheriam quinque, truncatis, linea angulata alligatis; spira subtruncata; apertura oblique ovali, subattenuata, albida. Axis 14 lin.

*Hab.* New Ireland; in the streams.

Shell ovate, pale yellow; whorls ventricose, spiniferous, of an uniform colour in the middle, above adorned with a single series of red markings, longitudinal or nearly square, below with two series of smaller spots placed on bands slightly paler than the neighbouring shell; the last whorl exhibits at its base several series of these articulated bands; the spines are distant and truncated to near their base; about five occupy the circumference of a whorl, and an angular line connects each with its neighbours; the spire has scarcely lost more than its extreme whorl by erosion; and the aperture is white, and in a slight degree attenuated at its base.

17. *Melania bellicosa*. Testa spinosa, ovata, valde truncata, fusca; anfractibus tribus rotundatis, transversim striatis, spiniferis, frequenter erosis; spinis aculeiformibus, subrectis, ad basin decurrentibus; spira apud anfractum antepenultimum truncata; apertura elongate ovali, subfuscata. Axis 9 lin.

*Hab.* Feejee Islands; in the rivers.

Nearly allied to *M. spinulosa*, Lamarck, which is found in the rivers of Timor.

IV.—*Contributions to British Jungermanniæ*. By THOMAS TAYLOR, M.D., F.L.S. &c.\*

1. *JUNGERMANNIA NIMBOSA*, Tayl. MSS. Caule laxe cæspitoso, erecto, subramoso; foliis laxis subsquarrosis; lobo *inferiori* obovato, subacute, patenti, *superiori* minori, obovato, erectiusculo, subimbriato, cauli adpresso, utrisque margine ciliatis, subconnexis.

On the summit of Brandon mountain, county of Kerry, 1813.

Stems growing up through tufts of *Musci*, reddish brown, 2—4 inches long; leaves, except at the very base, nearly of the same size; the lower lobe patent or deflexed, and so the shoots have a squarrose appearance: their texture is of very minute cells, their *ciliae* distant and large; the connexion between the upper and lower lobes is very short.

This was taken for *Jung. nemorosa*, L., when first brought down from Brandon Hill. It differs, however, by the taller size, the more deflexed lower lobes of the leaves, the slight joining between their lobes, and by the more considerable and more distant *ciliae* of their margins.

From *Jung. planifolia*, Hook., which accompanied it, the present is known by the more squarrose leaves, the stronger ciliation of their margins, the more considerable connexion between the lobes, and the more concave and less imbricated leaves. The calyx

\* Read before the Botanical Society of Edinburgh, 9th May 1844.